

IN THE CLAIMS

The following listing of claims replaces all prior listings:

1. (Currently Amended) A solid-state image pickup device comprising:
a substrate with [[an]]a light incident side and a non-light incident side facing away from said light incident side; and
a photosensor section provided in said substrate, said photosensor section including a first photosensor particularly sensitive to light of a first wavelength and a second photosensor particularly sensitive to light of a second wavelength which is shorter than the first wavelength,
wherein,
said first photosensor extends toward said non-light incident side in a depth direction to an extent greater than does said second photosensor,
and
said first photosensor and said second photosensor do not overlap in the depth direction.
2. (Currently Amended) [[A]] The solid-state image pickup device according to claim 1, wherein said first photosensor is particularly sensitive to a light beam of the red or green color and said second photosensor is particularly sensitive to a light beam of the blue color.
3. (Currently Amended) [[A]]The solid-state image pickup device according to claim 1, wherein said first photosensor is particularly sensitive to a light beam of the red color and said second photosensor is particularly sensitive to a light beam of the green color.

4. (Currently Amended) ~~[[A]] The~~ solid-state image pickup device according to claim 1, wherein said first photosensor and said second photosensor are provided at adjacent locations relative to said light incident surface but separated away from each other by a potential barrier section.

5-18. (Cancelled)

19. (Currently Amended) ~~[[A]]The~~ solid-state image pickup device according to claim 1, further comprising:
a read gate within said substrate at a location farther away from said light incident surface than said first photosensor.

20. (Currently Amended) ~~A solid-state image pickup device according to claim 2, further comprising:~~

A solid-state image pickup device comprising:

a substrate with a light incident side and a non-light incident side facing away from said light incident side;

a photosensor section provided in said substrate, said photosensor section including a first photosensor particularly sensitive to light of a first wavelength and a second photosensor particularly sensitive to light of a second wavelength which is shorter than the first wavelength;

a channel section in said substrate at a location beneath said second photosensor relative to said light incident surface; and

a gate for transporting electric charge obtained as a result of a photoelectric conversion process carried out by said first photosensor to said channel section,

wherein,

said first photosensor extends toward said non-light incident side to an extent greater than does said second photosensor, and

said first photosensor is particularly sensitive to a light beam of the red or green color and said second photosensor is particularly sensitive to a light beam of the blue color.

21. (Currently Amended) ~~[[A]]~~The solid-state image pickup device according to claim 1, further comprising:

a read gate provided in said substrate and adjacent said second photosensor relative to said light incident surface.

22. (Currently Amended) ~~A solid-state image pickup device according to claim 21 further comprising~~

A solid-state image pickup device comprising:

a substrate with ~~[[an]]~~ a light incident side and a non-light incident side facing away from said light incident side;
a photosensor section provided in said substrate, said photosensor section including a first photosensor particularly sensitive to light of a first wavelength and a second photosensor particularly sensitive to light of a second wavelength which is shorter than the first wavelength;

a read gate provided in said substrate and adjacent said second photosensor relative to said light incident surface; and

a channel section in said substrate and beneath said second photosensor relative to said light incident surface,

wherein,

said first photosensor extends toward said non-light incident side to an extent greater than does said second photosensor, and

said read gate is effective to transport electric charge from said second photosensor to said channel section.

23. (Currently Amended) [[A]]The solid-state image pickup device according to claim 1, wherein said photosensor section includes first and second color filters in registry with said first and second photosensors, respectively.

24. (Currently Amended) [[A]]The solid-state image pickup device according to claim 1, wherein said first photosensor is larger than said second photosensor along a dimension in the depth direction extending between said light incident and non-light incident sides of said substrate.